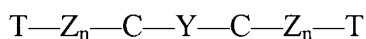


MONODISPERSE TELECHELIC DIOL-BASED
POLYURETHANES FOR USE IN GOLF BALLS

ABSTRACT

5 A golf ball including a core and a cover layer including a curing agent and a polyurethane prepolymer formed from a polyisocyanate and a monodisperse telechelic polyol having a polydispersity of from about 1.0 to about 1.3, and having the formula:



10 where **Y** is at least one molecule or mixtures of molecules having at least two independently polymerized vinyl groups, such as 1,3-divinylbenzene or 1,4-divinylbenzene; **C** is a hydrogenated or unsaturated block derived by anionic polymerization of at least one monomer selected from the group consisting of conjugated dienes, alkenyl-substituted aromatics, and
15 mixtures thereof; **Z_n** is a branched or straight chain hydrocarbon connecting group which contains **n** = 1-50 carbon atoms; and **T** is hydroxyl.